

# ABSTRACT

This invention relates to method for improving selectivity in liquid phase chemical reactions by flowing a reaction solution through a solution reaction column packed with particles having a multiplicity of nanometer-order pores, wherein the chemical reaction solution containing molecules to be reacted is flowed through mesopores having diameter on the order of several nanometers and length on the order of several ten nanometers, while simultaneously subjected to activating of the reaction thereof with reaction-initiating/accelerating means during the process; and a solution flow reaction system therefor.